
STAFF COMMENTS FOR PLANNING COMMISSION

MEETING DATE: September 6, 2006

SITE PLAN: **AFP-06-031**

TITLE: Fields Road Elementary School

REQUEST: **AMENDMENT TO FINAL PLAN APPROVAL**
For a 31,000 square foot addition

ADDRESS: 1 School Drive

ZONE: R-A (Low Density Residential)

APPLICANT/REPRESENTATIVE/ATTORNEY/DEVELOPER: (as applicable)

Applicant: Montgomery Country Public Schools – Ray Marhamati

Architect: Proffitt & Associates – Kori Purdon

Engineer: ADTEK Engineers – Patrick Welker

STAFF PERSON: Jacqueline Marsh, Planner
Patricia Patula, Planner (Presenting)

Enclosures:

Staff Comments

Exhibit 1: Application

Exhibit 2: Site location map

Exhibit 3: Site plan

Exhibit 4: Landscape plan

Exhibit 5: Landscape notes & details plan

Exhibit 6: Forest conservation plan

Exhibit 7: Storm water management concept plan

Exhibit 8: Erosion and sediment control plan

Exhibit 9: Architectural elevations

STAFF COMMENTS

Ray Marhamati, representing Montgomery County Public Schools (MCPS), has submitted this Amendment to Final Plan request for a 31,000 square foot addition to the existing building at Fields Road Elementary School. The school is located at the corner of Muddy Branch Road and School Drive in the R-A (Low Density Residential) Zone (see Exhibit #2).

The one-story addition includes a 10-classroom addition to the north and east sides of the building, and will align with the floor elevation of the existing building. The existing paved play areas and ball fields will be reconfigured to allow for the expanded building footprint. A new sidewalk around the perimeter of the proposed addition and a handicaps ramp with stairs will provide accessibility to the site amenities at the rear of the school (Exhibit #3).

There are two phases to the building addition project for Fields Road Elementary School. The site plan shows the areas that will be built in the future for six classroom expansion which will come back to the Commission when funding and plans are available.

The proposed architecture will have brick veneer and prefinished siding accents over the windows and doors. The new architecture will be compatible with the existing building façade (Exhibits #9 and #10).

New building-mounted exterior lighting has been designed to eliminate intrusion onto the adjacent properties and provides illumination for security purposes. The Department of Public Works, Park Maintenance, and Engineering (DPWPM&E) must grant approval to a final photometric and lighting plan. The applicant should include lighting for the new parking lot.

A new storm water management system for both quantity and quality measures will be installed due to the increase of impervious area onsite. While a concept SWM plan received approval from DPWPM&E, a final plan needs to be submitted for review.

On the north side of the building, stairs and a handicap ramp are required for the access to the play areas and sports fields, because there is a decrease in grade. A ten foot retaining wall has been proposed. Final details of the construction of this wall need to be approved by DPWPM&E. Because the school building is extending closer to the east side heavy landscaping is proposed to provide a buffer between the school and the adjacent apartment complex. Also, the final Forest Conservation Plan must receive approval from the Environmental Affairs Division.

Conclusion. Staff recommends granting **AFP-06-031, Fields Road Elementary School, AMENDMENT TO FINAL PLAN APPROVAL, FINDING IT IN COMPLIANCE WITH §§ 24-170 and 24-72, WITH THE FOLLOWING**

SUGGESTED CONDITIONS:

- 1. The applicant shall obtain approval of a final storm water management plan, the retaining wall, lighting, and photometric plan by the Department of Public Works, Park Maintenance, and Engineering prior to the issuance of building permits;**
- 2. The applicant shall obtain approval of the final forest conservation plan by the Environmental Affairs Division prior to the issuance of building permits.**

AMENDMENT TO FINAL PLAN APPLICATION

In accordance with Section 24, Article V of the City Code

Application # AFP-06-031
 Date Filed 7/21/06
 Total Fee N/A

1. SUBJECT PROPERTY

Project Name Fields Road E.S. Addition
 Street Address 1 School Drive Gaithersburg MD
 Zone RPT Historic area designation ☐ Yes ☒ No
 Lot 4199 Block 133 Subdivision PAR 5 SHAW GROVE VILLAGE SEC 2
 Tax Identification Number (MUST BE FILLED IN) 00844415 MAP: FS32

2. APPLICANT

Name Montgomery County Public Schools ATTN: RAY MARHAMATI
 Street Address 2096 Gaither Road Suite No. 203
 City Rahville State MD Zip Code 20850
 Daytime Telephone 301 240-314-1010

3. ARCHITECT/ENGINEER/DEVELOPER

Architect's Name Proffitt & Associates ATTN: Kori Purdum
 Architect's Maryland Registration Number _____ Telephone _____
 Street Address 100 N. Market St Suite Number _____
 City Frederick MD State MD Zip Code 21701

Engineer's Name ADTEK ENGINEERS INC ATTN: Patrick Welker
 Engineer's Maryland Registration Number _____ Telephone 301-662-4408
 Street Address 97 Monocacy Blvd Unit H Suite Number _____
 City Frederick State MD Zip Code 21701

Developer's Name N/A Telephone _____
 Street Address _____ Suite Number _____
 City _____ State _____ Zip Code _____
 Contact Person _____ Telephone _____

4. PROPERTY OWNER

Name MCPS - SAME as Applicant
 Street Address _____ Suite No. _____
 City _____ State _____ Zip Code _____
 Daytime Telephone _____

5. CITY PROJECT NUMBER

Original Site Plan Number _____ Date Approved _____
 Name of previously approved Final Plan _____

501/ AFP.06.031
 #1
 9.6.06

changes requested from final approved plan.

31,000 sq ft ADDITION, hard + soft surface play area, updated
storm water management facility

7. PROJECT DETAIL INFORMATION

a. POPULATION CHANGES (if any)

Changes in population estimated due to amendment.

Employee estimate: Total number _____

Total number per shift _____

Resident estimate: Total number —

Total number per dwelling unit —

b. PLEASE SUPPLY THE FOLLOWING INFORMATION

DEVELOPMENT INFORMATION		REQUIRED	PROVIDED
1. Site (square feet)			435161 sq ft
2. Site Area (acres)			9.99 Ac
3. Total Number of Dwelling Units/Lots			—
4. Height of Tallest Building			23'
5. Green Area (square feet)			225315.8 ft ²
6. Number of Dwelling Units/Acre			—
7. Lot Coverage (Percent)	Bus Parking / 24%		34.5 %
8. Green Area (Percent)			65.5 %
9. Residential			—
a. Single Family Detached	# Units		—
b. Single Family Attached	# Units		—
c. Multi-Family Condo	# Units		—
d. Multi-Family Apartment	# Units		—
e. Other			—
10. Retail/Commercial	Sq. Ft.		—
11. Restaurant Class: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	Sq. Ft.		—
12. Office/Professional	Sq. Ft.		—
13. Warehouse/Storage	Sq. Ft.		—
14. Parking			69
15. Shared Parking/Waiver			—
16. Other			—
17. Total			—

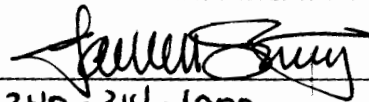
SUBMISSION REQUIREMENTS

1. Set of plans per the respective checklist. Plans must be folded to 8 1/2 x 11."
2. Completion of the table above.

I have read and complied with the submission requirements and affirm that all statements contained herein are true and correct.

Applicant's Name (please print) James Song

Applicant's Signature



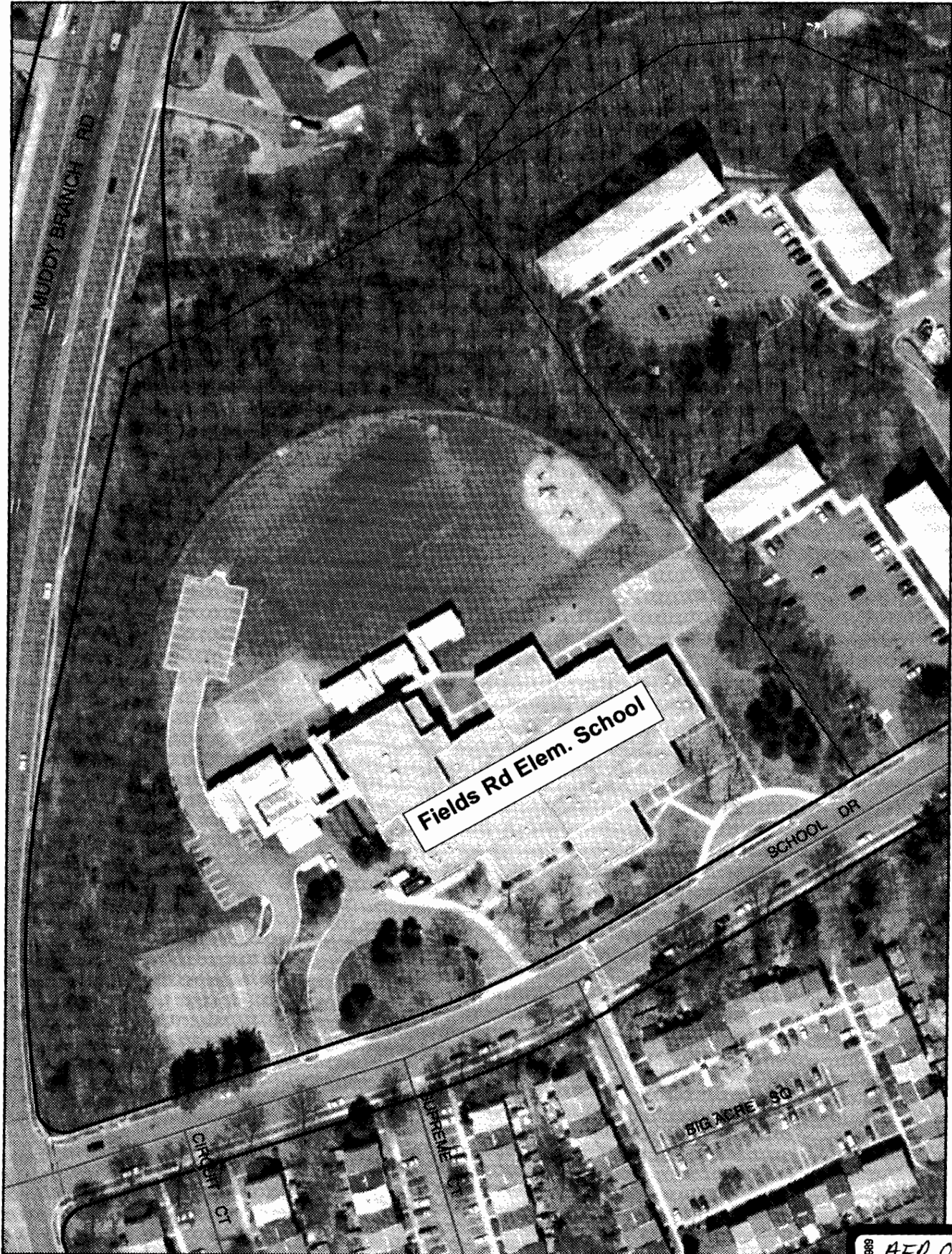
Date

07-17-06

Daytime Telephone

240-314-1000

AFP-06-031 Fields Road Elementary School Addition

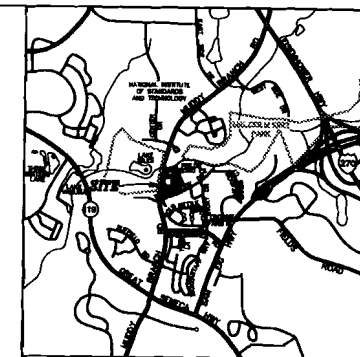


PENGLAD 800-631-6889

AFP-06-031
#2
9-6-06

SITE NOTES:

1. REFER TO DRAWING C-1 OF THIS PACKAGE FOR GENERAL NOTES THAT ARE APPLICABLE FOR THIS SET OF CONTRACT DOCUMENTS.
2. ALL PAVING SHALL BE INSTALLED FREE OF LOW PONDING AREAS AND SHALL BE GRADED TO DRAIN TO INLETS AND/OR OTHER DRAINAGE STRUCTURES.
3. ALL PAVEMENT STRIPPING AND HANDICAP ACCESS RAMP SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST CURRENT APPLICABLE ADA CODES, SPECIFICATIONS AND DETAILS SHOWN ON THE CONTRACT DOCUMENTS.
4. WHERE NEW GRASS/SEED IS CALLED FOR ON PLAN, SEED AND MULCH OR SOO AND PED PER STANDARDS AND SPECIFICATIONS. REFER TO LANDSCAPE DWG'S FOR SPECIFIC LOCATION AND IDENTIFICATION OF PLANTING MATERIALS.
5. ALL STANDARD PARKING SPACES SHALL BE STRIPED @ 9'x17' AND HANDICAP SPACES STRIPED AS SHOWN ON SHEET C-3B.
6. ALL SIDEWALKS TO BE 6' WIDE UNLESS SPECIFICALLY DIMENSIONED OTHERWISE.
7. PROPOSED ELEVATIONS ARE ABBREVIATED, REFER TO EXISTING CONTOURS FOR DATUM.
8. ALL CURB LINES ARE NOTED AS HAVING A NORMAL GUTTER PAN (OC&G) OR SPILL GUTTER PAN (OC&SG), SEE DETAIL 1 SHEET C-3B.
9. SPOT ELEVATIONS ALONG A CURB LINE ARE TO THE FLOW LINE, UNLESS SPECIFICALLY NOTED OTHERWISE.
10. TEMPORARY TREE PROTECTION FENCE SHALL BE MAINTAINED UPRIGHT AND IN GOOD CONDITION FOR THE DURATION OF THIS PROJECT AND SHALL BE REMOVED TOWARD THE END OF PROJECT, WITH APPROVAL FROM INSPECTOR.
11. EXISTING PAVEMENT AND SITE IMPROVEMENTS OUTSIDE THE LIMIT OF DISTURBANCE ARE TO BE RETAINED. THE CONTRACTOR SHALL RESTORE ANY AND ALL AREAS DISTURBED DURING CONSTRUCTION TO ORIGINAL CONDITION OR BETTER.
12. REFER TO ELECTRICAL PLAN FOR SITE LIGHTING AND LAYOUT.
13. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY TOPS AS REQUIRED TO MEET FINISHED GRADES.
14. ALL PERIMETERS, PAVING EDGES AND ISLANDS SHALL BE CURBED.
15. CURBS, GUTTERS, SIDEWALKS AND PAVING SHALL BE INSTALLED IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE FOR ALL AREAS SO THERE IS NO ACCUMULATION OF SURFACE WATER.
16. ALL PAVING, STORM DRAINAGE, UTILITIES AND IMPROVEMENTS ON THIS PARCEL ARE PRIVATE AND THE MAINTENANCE IS THE RESPONSIBILITY OF THE OWNER.
17. ALL PERIMETERS, PAVING EDGES AND ISLANDS SHALL BE CURBED.
18. CURBS, GUTTERS, SIDEWALKS AND PAVING SHALL BE INSTALLED IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE OF ALL AREAS SO THERE IS NO ACCUMULATION OF SURFACE WATER.
19. ALL PAVING, STORM DRAINAGE, UTILITIES AND IMPROVEMENTS ON THIS PARCEL ARE PRIVATE AND THE MAINTENANCE IS THE RESPONSIBILITY OF THE OWNER.



VICINITY MAP
SCALE: 1" = 2,000'
(NASSI GRID: 221 NW 10)
ADD MAP, 33RD EDITION
MONTGOMERY COUNTY, MARYLAND

LEGEND

- EXISTING MANHOLE
- EXISTING SANITARY SEWER
- EXISTING STORM DRAIN
- UTILITY POLE
- EXISTING WATER LINE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT
- BENCHMARK
- SIGN
- EXISTING TREE LINE
- PROPERTY LINE
- PROPOSED STORM DRAIN
- CHAIN LINK FENCE
- CONC CURB & GUTTER (SEE DETAIL 1 SHEET C-3B)
- CONCRETE SIDEWALK (SEE DETAIL 4 SHEET C-3B)
- PROPOSED BUILDING (SEE ARCH DWGS)
- ASPHALT (SEE DETAIL 2 SHEET C-3B)
- LIGHT DUTY ASPHALT (SEE DETAIL 3 SHEET C-3B)
- MULCH (SEE DETAIL 10 SHEET C-3B)
- ASPHALT SEAL

GENERAL NOTES:

1. TOPOGRAPHIC AND BOUNDARY SURVEY FOR THE PROPERTY WAS PREPARED BY MERIDIAN DATED SEPTEMBER 2005.
2. EXISTING CONTOUR INTERVAL = 2'.
3. THE PROPERTY HAS BEEN ZONED R-A.
4. SITE AREA = 3.42 ACRES (148,910 S.F.).
5. MAXIMUM BUILDING HEIGHT = 1 STORY (23'-0").
6. BUILDING SQUARE FOOTAGE =
58,976 S.F. (EXISTING FOOTPRINT)
58,933 S.F. (BASE BID FOOTPRINT)
98,928 S.F. (W/ADD ALTY. FOOTPRINT/ FULL BUILDOUT)
7. PARKING PROVIDED = 76 SPACES, SEE TABULATION, THIS SHEET.
8. TOTAL INTERNAL GREENSPACE OF 76 SPACE PARKING LOT = 12,228.
9. BUILDING COVERAGE (INCLUDING EXISTING BUILDING) = 21.80% (BASE BID)
10. STORMWATER MANAGEMENT WILL BE PROVIDED BY AN UNDERGROUND STORMWATER MANAGEMENT VAULT, AN UNDERGROUND SEPARATOR AND FILTER, AND A SAND FILTER.
11. THIS SITE IS LOCATED WITHIN THE OLDE TOWN DISTRICT.

CITY OF GAITHERSBURG PLANNING COMMISSION
31 SOUTH SUMMIT AVENUE, GAITHERSBURG MARYLAND 20877

SITE PLAN APPROVAL

AT THE REGULARLY SCHEDULED MEETING OF THE PLANNING COMMISSION HELD ON: APPLICATION NO. _____

WAS GRANTED: _____

DATE: _____ DATE: _____

NOTE: ANY REVISIONS TO SIGNED PLANS MUST BE REAPPROVED BY THE PLANNING COMMISSION

AFP 06.031
#3
9-6-06

OWNER/APPLICANT
MONTGOMERY COUNTY PUBLIC SCHOOLS
283 MUDDY BRANCH ROAD
GAITHERSBURG, MARYLAND 20878
ATTN: MR. RAY MARYAMATI, PE
TEL: (301) 546-7338 FAX: (301) 546-7274

ADDITIONS & ALTERATIONS TO
FIELDS ROAD
ELEMENTARY SCHOOL
1 SCHOOL DRIVE
GAITHERSBURG, MD

FOR:
MONTGOMERY COUNTY PUBLIC SCHOOLS

C-3A

PARKING TABULATION

TOTAL EXISTING SPACES (SIZE VARIES)	74 (70 REG./4 HC)
EXISTING SPACES REMAINING (SIZE VARIES)	0
NUMBER OF FULL TIME EMPLOYEES	81
NUMBER OF PART TIME EMPLOYEES	38
NUMBER OF HEALTH CENTER EMPLOYEES	8
TOTAL NUMBER OF EMPLOYEES	103

NUMBER OF SPACES REQUIRED BY CITY REGULATIONS	78
PROPOSED SPACES (9'x17')	87
PROPOSED SPACES (7'x22')	4
ACCESSIBLE SPACES (8'x17')	5
TOTAL PROPOSED	78

MISS UTILITY

CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 33A OF THE MONTGOMERY COUNTY CODE.

CAUTION: IF THIS DRAWING IS A REDUCTION,
GRAPHIC SCALE MUST BE USED
(ORIGINAL SIZE = 30" x 42")

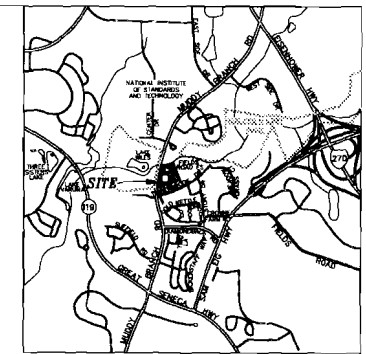
GRAPHIC SCALE



SITE PLAN

ADDITIONS & ALTERATIONS TO
FIELDS ROAD
ELEMENTARY SCHOOL
1 SCHOOL DRIVE
GAITHERSBURG, MD

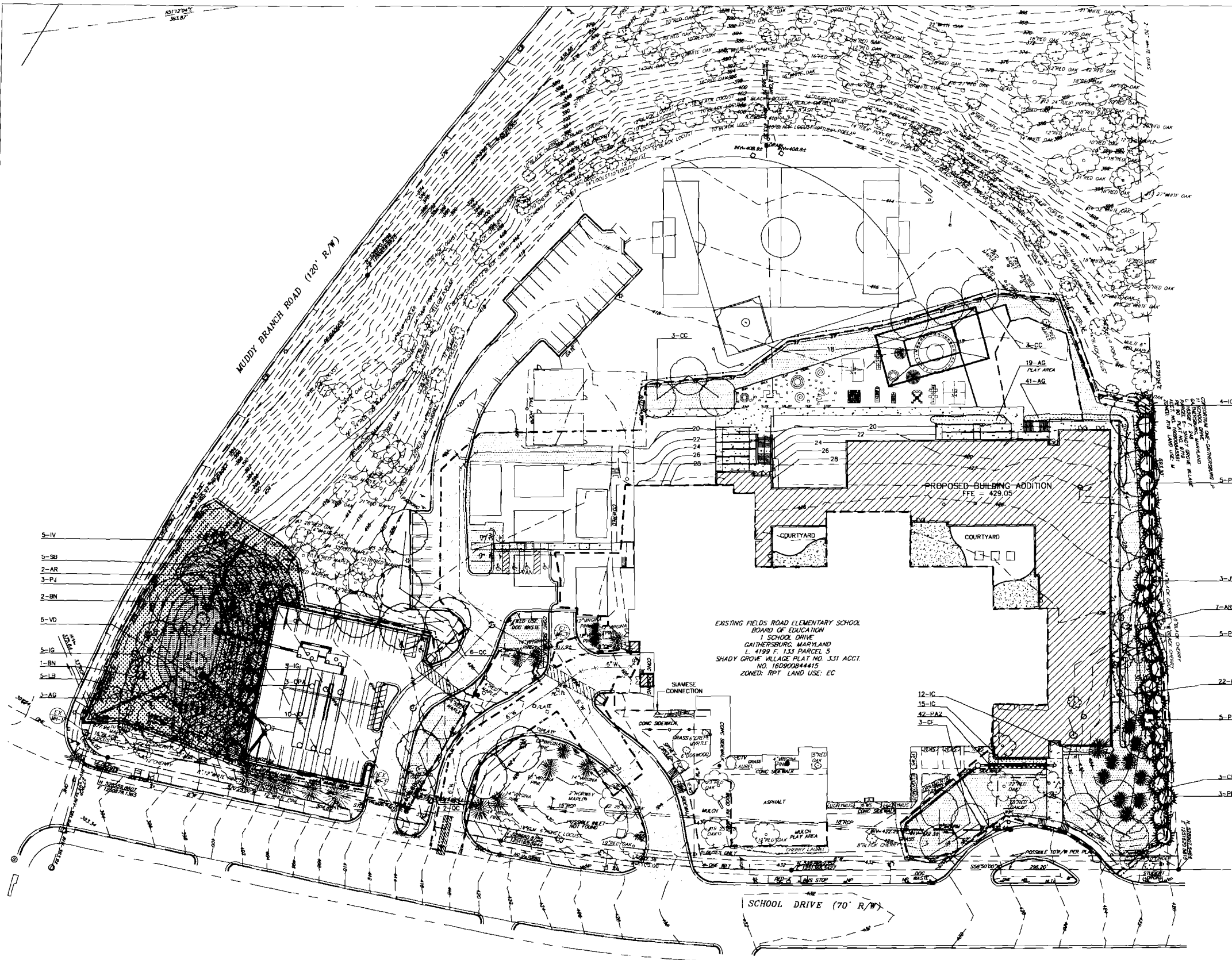
FOR:
MONTGOMERY COUNTY PUBLIC SCHOOLS



VICINITY MAP
SCALE: 1" = 2,000'
(NCSG GRID: 221 NW 10)
ADD. MAP, 3rd EDITION
MONTGOMERY COUNTY, MARYLAND

LEGEND

- PROPOSED CANOPY TREE
- PROPOSED ORNAMENTAL TREE
- PROPOSED EVERGREEN TREE
- PROPOSED SHRUB
- PLANT TYPE & QUANTITY
- LIMITS OF DISTURBANCE
- S1-RETENTION BASIN FLOOR SEEDING & COMPANION MIX
- S2-LAWN SEED MIX
- S3-STEEP SLOPE MIX (SHA SEED MIX 10) & COMPANION MIX
- S4-NATIVE UPLAND WILDLIFE FORAGE MEADOW MIX & COMPANION MIX
- ENKAMAT STABILIZATION



EXISTING FIELDS ROAD ELEMENTARY SCHOOL
BOARD OF EDUCATION
1 SCHOOL DRIVE
GAITHERSBURG, MARYLAND
L 4199 F 133 PARCEL 5
SHADY GROVE VILLAGE PLAT NO. 331 ACCT.
NO. 10200044415
ZONED: RPT LAND USE: EC

SCHOOL DRIVE (70' R/W)

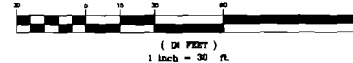
NOTE: FOR ALL DISTURBED AREAS NOT SHOWN OR COVERED ON THE LANDSCAPE PLAN, SEE PERMANENT SEEDING REQUIREMENTS ON EROSION & SEDIMENT CONTROL DRAWINGS.

MISS UTILITY

CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

CAUTION: IF THIS DRAWING IS A REDUCTION,
GRAPHIC SCALE MUST BE USED
(ORIGINAL SIZE = 30" x 42")

GRAPHIC SCALE



ADTEK
ADTEK ENGINEERS, INC.
INC. ENGINEERING & ARCHITECTURE
97 Monocacy Boulevard, Unit H
Frederick, Maryland 21701
Phone: 301-662-4408
Fax: 301-662-7484
www.adtekengineers.com

LANDSCAPE PLAN

ADDITIONS & ALTERATIONS TO:
**FIELDS ROAD
ELEMENTARY SCHOOL**
1 SCHOOL DRIVE
GAITHERSBURG, MD

FOR:
MONTGOMERY COUNTY PUBLIC SCHOOLS

OWNER/APPLICANT
MONTGOMERY COUNTY PUBLIC SCHOOLS
283 MUDDY BRANCH ROAD
GAITHERSBURG, MARYLAND 20878
ATTN: MR. RAY MARHAMATI, PE
TEL: (301) 548-7538 FAX: (301) 548-7274

DATE: 10/10/06	SCALE: 1" = 200'
PROJECT: FIELDS ROAD ELEMENTARY SCHOOL	DATE: 10/10/06
DESIGNER: ADTEK ENGINEERS, INC.	DATE: 10/10/06
CHECKED: ADTEK ENGINEERS, INC.	DATE: 10/10/06
APPROVED: ADTEK ENGINEERS, INC.	DATE: 10/10/06

AFP-06-031
#4
9-6-06

SITE LANDSCAPE & BIORETENTION PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
AC	ABELIA GRANDIFLORA	GLOSSY ABELIA	18"-24"	#3 CONT.	SHOWN	53	GLOSSY EMERALD LEAVES
AR	ACER RUBRUM	RED MAPLE	2.5" CAL	B&B	SHOWN	2	RED FOLIAGE IN FALL
BN	BETULA NIGRA	RIVER BIRCH	2.5" CAL	B&B	SHOWN	3	SINGLE STEM
CC	CERCIS CANADENSIS	EASTERN REDBUD	6"-8"	B&B	SHOWN	6	ROSE PINK FLOWERS IN SPRING
CF	CORNUS FLORIDA "CHEROKEE PRINCESS"	CHEROKEE PRINCESS DOGWOOD	6"-8"	B&B	SHOWN	6	ROSE PINK FLOWERS IN SPRING
IC	ILEX CRENATA "SOFT TOUCH"	SOFT TOUCH JAPANESE HOLLY	18"-24"	#1 CONT.	SHOWN	49	
IG	ILEX GLABRA	INKBERRY	18"-24"	CONT.	SHOWN	10	
IO	ILEX OPACA	AMERICAN HOLLY	6"-8"	# CONT.	SHOWN	14	SINGLE STEM
IV	ILEX VERTICILLATA	WINTERBERRY	18"-24"	CONT.	SHOWN	5	
JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	3'-4'	CONT.	SHOWN	3	
LB	LINDERA BENZON	SPICEBUSH	3' HEIGHT	B&B	SHOWN	5	UPRIGHT SHRUB
PA	PICEA ABIES	NORWAY SPRUCE	6'-7'	B&B	SHOWN	10	
PA2	PENNSSETUM ALOPECUROIDES "HAMLEN"	DWARF FOUNTAIN GRASS	#1 CONT.	CONT.	2' O.C.	42	
PJ	PIERIS JAPONICA "MOUNTAIN FIRE"	MOUNTAIN FIRE PIERIS	18"-24"	#3 CONT.	SHOWN	3	
PP	PICEA PUNGENS VAR. GLAUCA	COLORADO BLUE SPRUCE	6'-7'	B&B	SHOWN	3	
PR	PINUS RESINOSA	RED PINE	6'-7'	B&B	SHOWN	5	
QC	QUERCUS COCAINEA	SCARLET OAK	2.5 CAL	B&B	SHOWN	10	SCARLET FOLIAGE IN AUTUMN, FULL SUN
QP	QUERCUS PHellos	WILLOW OAK	2.5 CAL	B&B	SHOWN	1	
QPA	QUERCUS PAULSTERS	PIN OAK	2.5" CAL	B&B	SHOWN	3	
SB	SPIREA x BUMALDA "NEON FLASH"	NEON FLASH SPIREA	18"-24"	#3 CONT.	SHOWN	5	VMD RED FLOWERS IN SPRING, FULL SUN
VO	VIBURNUM DENTATUM	ARROW-WOOD	3' HEIGHT	B&B	SHOWN	5	UPRIGHT SHRUB

NOTE: FOR ALL DISTURBED AREAS NOT SHOWN OR COVERED ON THE LANDSCAPE PLAN, SEE PERMANENT SEEDING REQUIREMENTS ON EROSION & SEDIMENT CONTROL DRAWINGS.

SEED MIXES

S-1	*BIORETENTION-EROST CONSERVATION SEEDS OR COMPARABLE SEED RETENTION BASIN FLOOR SEEDING - FOR WILDLIFE & PLANT DIVERSITY	SEED	SEED	25LBS/ACRE	5 LBS.	STABILIZATION
S-2	*LAWN- NO CERTIFIED TALL FESCUE (85%) SEED PERENNIAL RYEGRASS (10%) KENTUCKY BLUEGRASS (5%)	SEED	SEED	150LBS/ACRE	66 LBS.	STABILIZATION
S-3	STEEP SLOPE MIX (SHA SEED MIX 10 & COMPANION MIX)	SEED	SEED	20LBS/ACRE	20 LBS.	STABILIZATION
S-4	*EROST NATIVE UPLAND WILDLIFE FORAGE MEADOW MIX OR COMPARABLE	SEED	SEED	100LBS/ACRE	20 LBS.	STABILIZATION
COMPANION SEED	ANNUAL RYEGRASS COMPANION CROP FOR MIXES AS REQUIRED	SEED	SEED	30LBS/ACRE	30 LBS.	STABILIZATION

* FERTILIZER (10-10-20) AT RATE OF 200LBS/ACRE, LIME RATE AT 2 TONS/ACRE.

** COVER WITH STRAW MULCH & LIMEW RATE OF 2 TONS/1,000 SF

SITE STABILIZATION NOTE:

ALL DISTURBED AREAS ARE TO BE STABILIZED WITH SHA SEED MIX NO. 1 FOR SLOPES EQUAL TO OR LESS THAN 3:1. ALL DISTURBED AREAS GREATER THAN 3:1 SHALL BE STABILIZED WITH SHA SEED MIX NO. 1, AT A RATE OF 125 LBS./ACRE, ALONG WITH AN ADDITIVE OF CROWN VETCH AT A RATE OF 25LBS./ACRE AND FOXTAIL MILLET AT A RATE OF 25LBS./ACRE.

PLANTING SPECIFICATIONS

SCOPE: Consists of supplying the planting trees, shrubs and herbaceous materials (groundcovers) including the staking of trees as specified herein and the supplying of materials, labor, equipment and work related services necessary for same as specified herein.

The work of this section includes, but is not limited to:

- mulching
- watering
- soil preparation
- planting
- staking
- plant materials
- maintenance
- replacement

MATERIALS: Whenever the following items appear in the specifications, they shall be as follows:

Topsoil: The Contractor shall provide required natural, friable, fertile, fine sandy loam possessing the characteristics of representative topsoil in the vicinity which produce heavy growths of vegetation. The topsoil shall be free from subsoil, noxious weeds, stones, lime, cement, gravel, slag and other deleterious matter. Topsoil shall be well drained in its original condition and free of toxic quantities of acid or alkaline elements. It shall contain sand and clay in approximately equal proportions, and shall have an organic content by weight of not less than 2% nor more than 20% as determined by laboratory tests. The pH shall be between 6 and 7.

Fertilizer: Commercial slow release fertilizer for additional plant application shall be standard formula 10-5-4, nitrogen 10%, phosphoric acid 5%, potash 4%, and shall contain minor trace elements. The formula shall be in conformity to applicable state fertilizer laws. Fertilizer shall be uniform in composition, dry and free flowing, and shall be delivered to the project site in the original unopened containers, each bearing the manufacturer's guaranteed analysis. Any fertilizer which becomes wet, caked, or otherwise damaged will not be accepted.

Water: Shall be furnished by the Contractor for the execution of all work specified in this contract. The Contractor shall verify that the water available is suitable for irrigation and free from ingredients harmful to plant life.

Pest: Shall be any moss (epiphytum) pest, brown acid reaction approximately 4 to 5 pH; of standard commercial quality delivered to the site in bags or other convenient containers, in air dry condition. Pest shall be fully warranted by the producer.

Branch Stake/Wood brace stakes shall be common lumber or the sizes in the following table:

Tree Size	Branch Stakes
1"-12" or < 6" tall	2"x2"x6"
12"-3" or > 6" tall	2"x2"x24", 2"x2"x30" for conifers

Wire shall be good commercial quality of galvanized wire. Wire used to stake trees shall be No. 11 gauge minimum.

Hose: Hose shall be new two ply fabric bearing garden hose not less than 2 inch inside diameter.

PLANT MATERIAL STANDARDS:

Association of Nurserymen, Inc., as published in the "American Standard for Nursery Stocks", latest edition. No substitutions of size or grade shall be permitted without written permission from the Landscape Designer. Each bundle of plants and all separate plants shall be properly identified with the legible waterproof tags securely fastened to each plant or bundle of plants. They shall remain on the plants until final inspection.

Health: All plants including their roots shall be free from disease, insects, or other injurious qualities. All root, stem, and foliage shall be healthy and free from defects. Plants shall be free from defects, including wounds, sunscald injuries, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation. All new plants shall be nursery grown.

Quality: All plants shall be true to type; they shall have normal, well-developed branch systems, and a vigorous fibrous root system. They shall be sound, healthy, and free from defects. Plants shall be free from defects, including wounds, sunscald injuries, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation. All new plants shall be nursery grown.

Ball and Burlap: All balled and burlapped plants shall conform to the "American Standard for Nursery Stocks", latest edition. All balls shall be of natural earth in which the plant has been growing. No manufactured or artificially produced or muddled balls shall be accepted. Balls shall be firm and unbroken, and of large enough size to adequately enclose the plant's fibrous root system.

Plant List: The list of plants furnished with the specifications is for the information of the Contractor. The height and caliper of trees, the height or spread of shrubs, the diameter of the bole of trees and the minimum dimensions required. Plants indicated "B&B" are to be dug with a ball of earth and wrapped in burlap.

Measurements: Shall conform to those specified on the plant list except as follows:

Over-size plants may be used only after approval by the designer.

Use of such plants shall not increase the contract price.

Height and spread dimensions indicated refer to the main body of the plant and not from branch tip to branch tip. All trees and shrubs shall be measured when their branches are in normal position. Trees shall have straight trunks with the leader intact, undamaged and uncut.

Inspection: The Planting Contractor shall be responsible for all inspection and approval of the plant material that may be required by state, federal and other authorities, and he shall secure any permits and certificates that may be required.

All plants shall be subject to inspection, and approval at place of growth before digging, or upon delivery, for quality, size and variety; such approval shall not impair the right of rejection of the project site during progress of the work, for size, condition of balls, roots, latent defects or injuries. Rejected plants shall be removed immediately from the project site.

DIGGING AND HANDLING:

Protection from extremes in exposure and rough handling shall be provided all plant materials during transport and storage.

All plant materials shall be assembled in one location on the job site to permit inspection and approval by the designer. The Contractor shall notify the designer five (5) working days prior to planting so that a mutually agreeable time may be arranged for inspection. Stock with broken roots or loose containers, and stock which shows evidence of being root-bound, over-grown, or recently canned, or in the opinion of the designer is damaged or improperly cared for, shall be removed from the site immediately and replaced at the Contractor's expense with another plant meeting the original specifications. Plants shall not be pruned prior to approval by the designer.

PROCEDURE:

Tree Planting

Layout: All trees shall be located as designated in the field by the planting plan. Where below ground or overhead obstructions are encountered, the trees shall be relocated by the designer.

Planting Pits: Shall be a diameter two (2) feet greater than the diameter of the ball of the tree. The depth of the pit shall be enough to accommodate the ball or roots of the tree when the tree is set to finish grade, allowing for six inches of compacted topsoil below the roots of the plant. Prior to installing the 6" of topsoil to the pit, 3" of existing soil shall be mixed with the topsoil at a 1:1 ratio to reduce puddling beneath plantings. Planting islands within the parking lot shall be brought to final grade with 6" of planting soil.

Planting Soil Preparation: Mix 5 lbs. of 10-8-4 slow release fertilizer per cubic yard of topsoil and then one part peat moss with five parts topsoil. Mix all components thoroughly before backfilling.

Setting of Trees: Before setting the trees, pits shall be backfilled with topsoil to a depth of 6", thoroughly tamped and watered. All plants shall be placed at such a level that, after settlement, the natural relationship between the original grade of which the plant grew, the ball shall be 1/8" higher than the finish grading. Trees shall be planted plumb, oriented for desired effect as directed by the designer. Topsoil shall be tamped under and around the base of each ball to fill all voids and shall be placed in 4 to 5 inch layers, each thoroughly tamped and watered. Burlap shall be removed from the sides and top of balls and from under the balls. When planting bare root trees, care shall be taken to water topsoil in around the roots and then only a natural position before backfilling. Shallow basin or saucers a little larger than the diameter of the ball shall be formed around all trees to hold additional water.

Mulch: Shall be applied to all tree pits to a depth of 2-3".

Pruning: All trees shall be neatly pruned after planting in accordance with the best standard practices and as directed by the designer. The tree shall be pruned to preserve its natural form and character and in a manner appropriate to its particular requirements. In general, at least one third of the deciduous trees shall be removed by thinning or shortening of branches but no leaders shall be cut. All pruning shall be done with clean, sharp tools.

Shrub and Herbaceous Materials (groundcover)

Layout: Herbaceous planting beds and shrub pit locations shall be designated by the designer in accordance with the plant list and the tentative locations shown on the planting plan. The general form of the planting bed shall be staked out and excavations performed within the stakes.

Preparation of Herbaceous Planting Beds: The ground shall be thoroughly broken to a depth of 12 inches. The top 4 inches shall be worked by the contractor until the soil is completely fine and in a mellow condition to finish grade. All organic material shall either be worked into the soil or removed from the site. Clumps shall be removed from the site. All shall be performed perpendicular to the direction of surface drainage. All holes, depressions and ruts shall be filled and brought to a smooth grade.

Shrub Planting Pit: Shall have vertical sides. The diameter of the pits shall be one (1) foot greater than the diameter of the ball of the shrub. The depth of the pit shall be enough to accommodate the ball or roots of the shrub when the shrub is set to finish grade compacted, allowing for six inches topsoil below the roots of the plant. Prior to installing the 6" of topsoil to the pit, 3" of existing soil shall be mixed with the topsoil at a 1:1 ratio to reduce puddling beneath plantings.

Shrub Planting Soil: Mix 5 lbs. 10-8-4 slow release fertilizer per cubic yard of topsoil and then one part peat moss with five parts topsoil. Mix all components thoroughly before backfilling.

Setting of Shrubs: All materials shall be planted 2" higher in relation to the finish grade as they had before transportation. The depth of the holes, as hereafter specified, shall be understood to be the depth below finished ground. Balled and burlapped plants shall have topsoil tamped under the balls. All burlap, ropes, wires, etc., shall be taken off the top of the balls and removed from the ball before backfilling. Roots of bare root plants shall not be left matted together, but shall be arranged in natural positions and shall have topsoil worked in around them. All burlap and ropes shall be properly removed by trimming.

The Backfill of Topsoil: Shall be tamped in successive 5" layers. When the hole has been 2/3 backfilled, water shall be poured in filling the hole, and allowed to soak away so that all voids or air pockets under or around the roots are eliminated. After the water has soaked away, the hole shall be completely backfilled with "topsoil". After the backfill settles, additional soil shall be filled in, to the level of the finish grade. A shallow saucer of soil shall be formed around the edge of each hole to hold additional water.

Pruning: All shrubs shall be neatly pruned or thinned immediately after planting in accordance with best standard practices and as directed by the designer. Broken or broken branches shall be removed with a clean cut. Each shrub shall be pruned to preserve its natural form or character and in a manner appropriate to its particular requirements. All pruning and thinning shall be done with sharp, clean tools.

Mulch: Shall be applied to all shrub beds and pits to a depth of 3" and to all herbaceous planting beds to a depth of 2" and evenly around the sides of the tree, outside of the ball. All stakes shall be oriented to a line parallel with the normal prevailing winds, or as directed by the designer. See planting details for staking locations.

TEMPORARY STORAGE AND HEETING-IN:

No heat-in plant material will be accepted, nor will any temporary heating-in storage be permitted.

Plant material unloaded and accepted by the inspector shall be immediately transported to the planting site and planted. Material left out of ground overnight or left with its roots bare to the sun, or otherwise unprotected during transit, unloading or storage shall be rejected by the designer, if in his judgment such lack of protection has caused damage to the roots of the plant or in any other way injured the plant material.

MAINTENANCE:

The planting contractor shall be required to make periodic checks on the total project to make certain that the materials are properly cared for and that the sum of all plant materials will be noted and recorded for reference by the designer.

INSPECTION AND ACCEPTANCE:

Inspection of this work will be made by the designer at the conclusion of the planting period upon written notice by the Contractor at least five (5) days prior to anticipated date. Condition of all plant materials will be noted and recorded for reference by the designer.

After inspection, the planting contractor will be notified in writing by the designer if there are any deficiencies of the requirements for acceptance of the work.

GUARANTEE AND REPLACEMENT:

Trees and shrubs shall be guaranteed for a maximum of two full years of growing seasons after installation and shall be alive and in satisfactory condition at the end of the guarantee period. Such guarantee excludes vandalism.

DEFINITION FOR FURNISHED AND INSTALLING PLANT MATERIAL:

The unit price contained in the bid proposal for furnished and installing plant and shrub material shall be defined to include furnishing and installing material, all planting soils (if applicable), staking and a guarantee for two years or growing seasons (excluding vandalism).

PUBLIC UTILITIES:

- Care shall be exercised in excavation near utilities. If at any time Contractor damages the utilities in place through negligence or carelessness, Contractor shall be responsible for the full cost of repairing such damages. Contractor shall notify the appropriate person in the office of any utility whose lines may be affected.
- The locations of utilities shown on the plans are approximate only and do not necessarily indicate all the utilities that may be encountered during construction. The failure of a utility to be shown on the plans does not relieve Contractor of the responsibility for any injuries he may inflict on the utility, and in case of injury, it shall be repaired at the expense of the Contractor.
- Whenever other utilities are encountered whose present grade would conflict with the new construction, Contractor shall notify landscape architect, who shall arrange revisions without unreasonable delay. Trenching or tunneling under existing utilities, culverts, etc., and providing temporary support shall be done at no additional expense to Owner.

GUARANTEE AND REPLACEMENT: The Contractor will guarantee an 85% survival rate of plants (each species) after one year. If at the time the total number of plants has fallen below the threshold, the Contractor will make a one-time replacement to bring plant numbers to the 85% level for each species. Care shall be taken such that the activities involved in replacement planting do not cause damage or detrimental effect to the surviving flora. Any plants damaged by these activities will also be replaced by the Contractor to the 85% threshold.

Trees, shrubs and ground covers shall be guaranteed for a maximum 1 year after installation and shall be alive and in satisfactory condition at the end of the guarantee period. Such guarantee excludes vandalism.

DEFINITION FOR FURNISHED AND INSTALLING PLANT MATERIAL: The unit price contained in the bid proposal for furnished and installing plant and shrub material shall be defined to include furnishing and installing material, all planting soils (if applicable), staking and a guarantee for 18 months (excluding vandalism).

PROTECTION OF PRIVATE PROPERTY: Contractor shall repair or replace all fences, concrete walls, concrete curbs, gravel and asphalt driveways, signs, culverts, and all other miscellaneous improvements to the site, if no additional expense is charged by Contractor due to his operations on the project, to a condition equal to or better than their condition before construction.

JOB CONDITIONS:

- Examine and evaluate grades, soils and water levels, observe the conditions under which work is to be performed, and notify the Landscape Architect of unsatisfactory conditions. Do not proceed with the work until unsatisfactory conditions have been corrected in an acceptable manner.
- Utilities: Review underground utilities location maps and plans provided by owner; demonstrate an awareness of utility locations, and certify acceptance of liability for the protection of utilities during course of work. Contractor shall be responsible for any damage to utilities or property.
- Excavation: When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify Landscape Architect before planting.

S1 - RETENTION BASIN FLOOR SEEDING - FOR WILDLIFE AND PLANT DIVERSITY	20% CREEPING FOXTAIL
25% ELYMUS VIRGINICUS	VIRGINIA WILD RYE
20% CAREX VULPINODEA	FOX SEDGE
5% AGROSTIS SCABRA	TICKLEGRASS / ROUGH BENTGRASS
5% POA PALUSTRIS	FOWL BLUEGRASS
4% BIDENS CERNUA	NOODING BUR MARGOLD
3% SPARGANGLUM ELUYRICARPUM	GIANT BUR REED
3% VERBENA HASTATA	BLUE VERNON
2% JUNCUS EFFUSUS	SOFT RUSH
2% SCORPUS ATRORHENS	GREEN BULLRUSH
2% SCORPUS CYPERINUS	WOOL GRASS
2% SCORPUS POLYTHYLLUS	MANY LEAVED BULLRUSH
1% MAULUS RINGENS	SQUARE STEMMED MONKEY FLOWER
1% SOLIDAGO PATULA	ROUGH-LEAVED GOLDENROD

* OVERSEED WITH ANNUAL RYEGRASS AS A COMPANION CROP AND EROSION CONTROL.

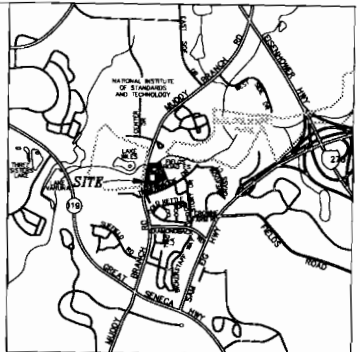
S2 - LAWN SEED MIX	85% MD CERTIFIED TALL FESCUE
10% PERENNIAL RYEGRASS	
5% KENTUCKY BLUEGRASS	

* FERTILIZER (10-10-20) AT RATE OF 200LBS/ACRE, LIME RATE AT 2 TONS/ACRE.

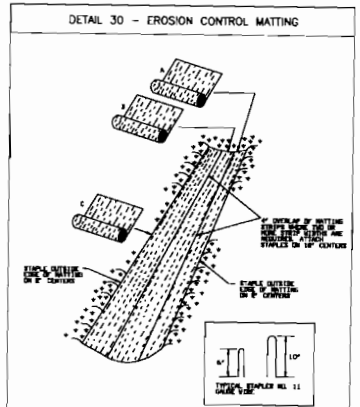
S3 - STEEP SLOPE MIX (SHA SEED MIX 10 & COMPANION MIX)

75% TALL FESCUE (CERTIFIED SEED ONLY)	
5% REDTOP	
10% CANADA BLUEGRASS	
10% KENTUCKY BLUEGRASS (CERTIFIED SEED ONLY)	
COMPANION/COVER:	
30% CHEWING FESCUE	
30% CANADA BLUEGRASS	
10% REDTOP	
30% SERGIA LEPEDEZA (INOCULANT REQUIRED)	

S4 - NATIVE UPLAND WILDLIFE FORAGE AND COVER MEADOW MIX	
20% TRIPSACULUM DACTYLOIDES	EASTERN GAMMA RAYS
12% ELYMUS CANADENSIS	CANADA WILD RICE
10% ANDROPOGON GERARDI/ROUNTREE	BIG BLUESTEM
10% ANDROPOGON SCOPARIUS	CAMPERSMILK LITTLE BLUESTEM
10% CHAMAECRISTA FASCICULATA	PARTICLOPE PEA
10% PANICUM VIRGATUM	SHIELDED LITTLE GRASS
10% SORGHASTRUM NUTANS	HOLT INDIAN GRASS
5% COREOPSIS TINCTORIA	PLAINS COREOPSIS
5% MUEHLBERGIA SCHREBERI	RAINFALL WILLY
5% POA PALUSTRIS	FOWL BLUEGRASS



VICINITY MAP
SCALE: 1" = 2,000'
(NCEC GRID: 221 NW 10)
AOC MAP: 3.5x3 EDITION
MONTGOMERY COUNTY, MARYLAND



INSTALL REINFORCEMENT ENKAMAT NO. 7020 OR APPROVED EQUAL AND KEY IN TURF REINFORCEMENT MATERIAL PER DETAIL AND MFR'S SPECIFICATIONS

- INSTALL THE MATERIAL PER THE MANUFACTURER'S INSTRUCTIONS INCLUDING SURFACE PREPARATION AND STAPLING. IT IS VERY IMPORTANT THAT THE MATERIAL BE INSTALLED IN GOOD CONTACT WITH THE PROUD WITH NO WHIRLS OR VOID SPACES BELOW THE FABRIC. STAPLES MUST BE PLACED IN A DIAGONAL PATTERN, APPROXIMATELY 18" APART.
- FLUIDS IN THE MATERIAL WITH TOPSOIL BEFORE SEEDING OR SEEDING. DO NOT PLACE MORE THAN ONE HALF INCH (1/2") OF TOPSOIL OVER THE MATERIAL. THE MATERIAL MUST BE WITHIN THE ROOT ZONE FOR IT TO FUNCTION PROPERLY.
- MATERIAL MUST BE ENKAMAT 7020 OR OTHER MFR'S APPROVED EQUIVALENT, TO BE CONSIDERED AS AN EQUIVALENT. THE MATERIAL MUST BE A SINGLE LAYERED TURF REINFORCEMENT MATERIAL. PROPOSED ALTERNATIVES MUST BE APPROVED BY MFR'S IN WRITING PRIOR TO PLACEMENT.
- TURF REINFORCEMENT IS NOT MEANT TO SERVE AS AN EROSION CONTROL WALL. IF NECESSARY, A BIOENGINEERED MATERIAL, SUCH AS EXCELLENT, MAY BE PLACED OVER THE PREPARED SEED BED TO HOLD THE SEED IN PLACE. THE PURPOSE OF THE TURF REINFORCEMENT MATERIAL, IS TO HOLD AND STRENGTHEN TO THE ROOT SYSTEM AFTER GERMINATION.

U.S. DEPARTMENT OF AGRICULTURE	PAGE: 1	IMPROVED REINFORCEMENT OF DISTURBED AREAS
NAT. CONSERVATION SERVICE	1 OF 1	NO. 1-1-1

AF-P-06-031
#5
9-6-06

OWNER/APPLICANT
MONTGOMERY COUNTY PUBLIC SCHOOLS
283 MUDDY BRANCH ROAD
GAITHERSBURG, MARYLAND 20878
ATTN: MR. RAY MARHAMATI, PE
TEL: (301) 548-7538 FAX: (301) 548-7274

DATE 18 AUGUST 06
PROJECT & JOB NO.
100 North Market Street
Frederick, Maryland 21701
PHONE: 301-662-4408
FAX: 301-662-4408

L-2

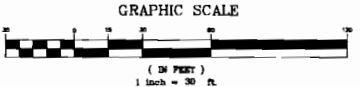
ADTEK
ADTEK ENGINEERS, INC.
ONE, INDEPENDENT & UNIVERSITY, LANTANA
87 Monocacy Boulevard, Unit 10
Frederick, Maryland 21701
Phone: 301-662-4408
Fax: 301-662-7484
www.adtekengineers.com

LANDSCAPE
NOTES
&
DETAILS
PLAN

ADDITIONS & ALTERATIONS TO
FIELDS ROAD
ELEMENTARY SCHOOL
1 SCHOOL DRIVE
GAITHERSBURG, MD

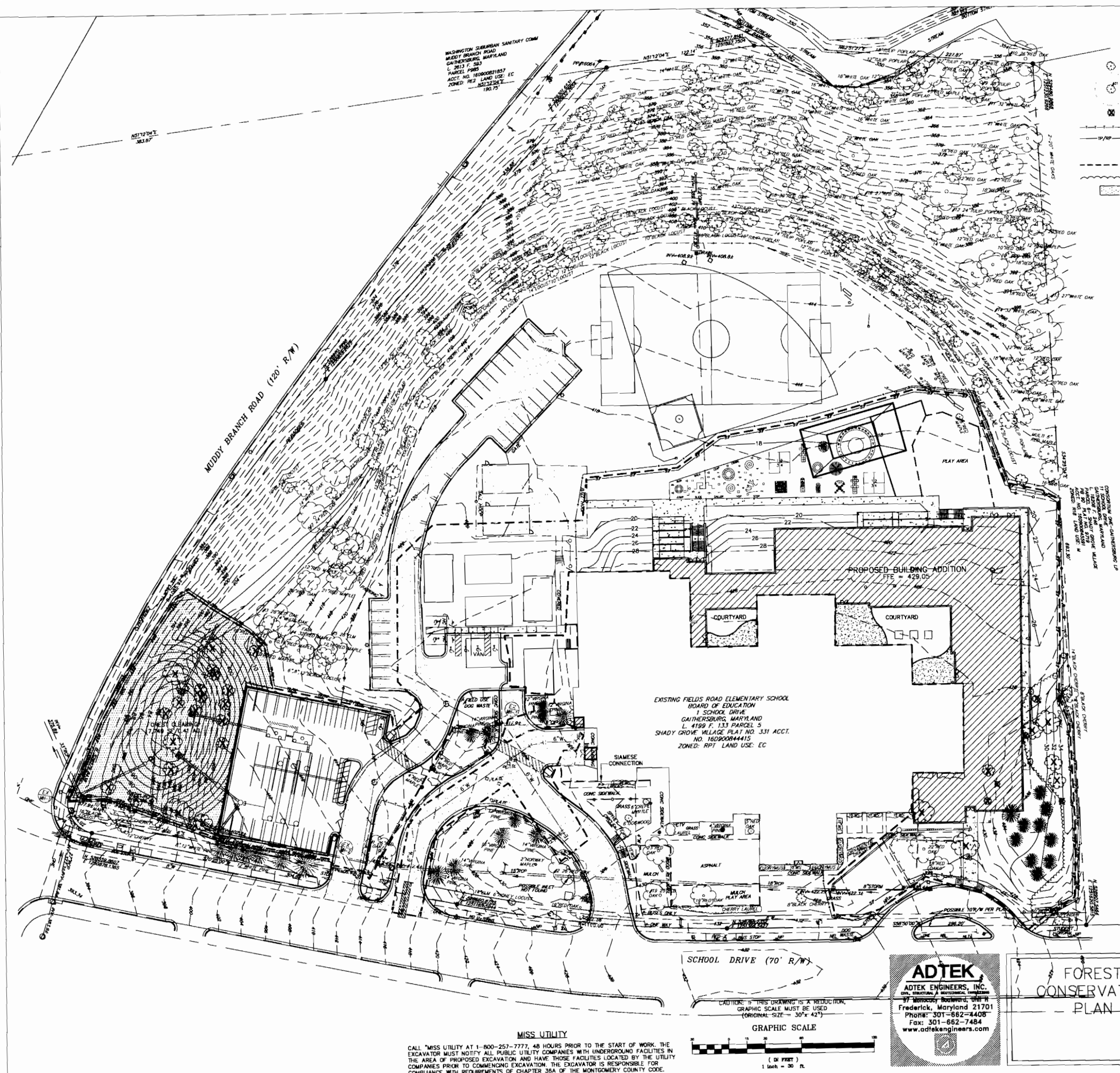
FOR:
MONTGOMERY COUNTY PUBLIC SCHOOLS

CAUTION: IF THIS DRAWING IS A REDUCTION,
GRAPHIC SCALE MUST BE USED
(ORIGINAL SIZE = 30" x 42")

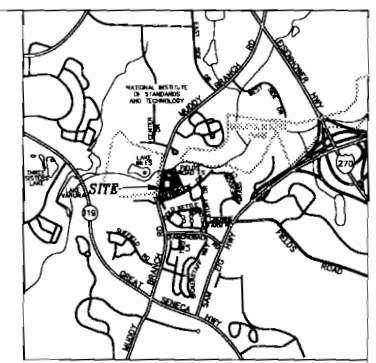


MISS UTILITY

CALL "MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THESE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.



- LEGEND**
- EXISTING TREE
 - SIGNIFICANT TREE
CRITICAL ROOT ZONE
 - TREE TO BE REMOVED
 - TREE PROTECTION FENCE
 - COMBINED ROOT PRUNE
TRENCH/TREE PROTECTION
FENCE
 - LIMITS OF DISTURBANCE
 - EXISTING FOREST
 - FOREST CLEARING AREA



VICINITY MAP
SCALE: 1" = 2,000'
(NASS GRD: 221 NW 10)
ADD MAP: 33rd EDITION
MONTGOMERY COUNTY, MARYLAND

FOREST CONSERVATION WORKSHEET 1.2

FIGURE 1

A. TOTAL AREA OF TRACT:	9.99 acres
B. AREA WITHIN 100-YEAR FLOODPLAIN:	0.18 acres
C. AREA OF LAND TO BE USED FOR AGRICULTURE:	0 acres
D. AREA WITHIN ROW/SEWERAGE FOR WHICH WSCC OR MDC/PSA WILL BE RESPONSIBLE:	0.83 acres
E. NET TRACT AREA (A-B-C-D):	9.81 acres
F. LAND USE CATEGORY: (From Table 2)	IDA
G. AFFORESTATION THRESHOLD (A FROM TABLE 3, 100%):	1.47 acres
H. CONSERVATION THRESHOLD (A FROM TABLE 3, 20%):	1.97 acres
I. EXISTING FOREST COVER:	3.14 acres
J. FOREST COVER ABOVE AFFORESTATION THRESHOLD (I-G):	1.67 acres
K. FOREST COVER ABOVE CONSERVATION THRESHOLD (I-H):	1.17 acres

CALCULATION OF BREAK-EVEN POINT (Forested acres to be saved for no planting requirements):

L. IF $K < 0$ AND $J > 0$, BREAK-EVEN POINT EQUALS I:	0 acres
(IF $I < G$, THERE IS NO BREAK-EVEN POINT AND AFFORESTATION PLANTING IS REQUIRED. REFER TO P, BELOW.)	2.20 acres
IF $K > 0$, BREAK-EVEN POINT EQUALS $(K/G) \times H$:	0.41 acres

M. TOTAL AREA OF FOREST TO BE CLEARED:

(IF H IS GREATER THAN I-L, RESTORATION PLANTING IS REQUIRED. SEE Q-W, BELOW.)	2.23 acres
---	------------

N. TOTAL AREA OF FOREST TO BE CLEARED:

(IF H IS GREATER THAN I-L, RESTORATION PLANTING IS REQUIRED. SEE Q-W, BELOW.)	0.41 acres
---	------------

O. AFFORESTATION REQUIREMENT: $G - I$

	0 acres
--	---------

P. AFFORESTATION REQUIREMENT:

	0 acres
--	---------

Q. AREA OF FOREST ABOVE CONSERVATION THRESHOLD TO BE CLEARED

(IF $K > 0$, USE K ; IF $K < 0$, USE J)	0.41 acres
--	------------

R. AREA OF FOREST BELOW CONSERVATION THRESHOLD TO BE CLEARED (N-Q):

	0 acres
--	---------

S. FORESTED AREA ABOVE CONSERVATION THRESHOLD TO BE SAVED (N-H):

	0.78 acres
--	------------

T. PLANTING REQUIRED FOR CLEARING ABOVE THRESHOLD: $Q \times 0.25$:

	0.10 acres
--	------------

U. PLANTING REQUIRED FOR CLEARING BELOW THRESHOLD: $R \times 2$:

	0 acres
--	---------

V. CREDIT FOR FOREST SAVED ABOVE CONSERVATION THRESHOLD(S):

	0.78 acres
--	------------

W. TOTAL RESTORATION REQUIREMENTS: $T + U - V$:

	0 acres
--	---------

X. AFFORESTATION AND RESTORATION: $P + W$:

	0 acres
--	---------

Y. CREDIT FOR TREES AND LANDSCAPING:

	0 acres
--	---------

Z. TOTAL PLANTING REQUIREMENTS: $X - Y$:

	0 acres
--	---------

1. Use 0 for all negative numbers that result from the calculations.
2. See Appendix A - Glossary, for definition of terms.
3. Refer to Section 10.04 of the manual for detailed explanation. All areas which are appropriate for establishing forest cover must be utilized before credit may be taken for trees and landscaping.

SITE TABULATIONS:

ACREAGE OF TRACT:	9.99
ACREAGE OF EX. FOREST:	3.14
ACREAGE OF TOTAL FOREST RETENTION:	2.73
LAND USE CATEGORY	IDA
AFFORESTATION THRESHOLD	1.47
ACREAGE OF FOREST RETAINED, CLEARED, AND PLANTED WITHIN WETLANDS	0/0/0
ACREAGE OF FOREST RETAINED, CLEARED, AND PLANTED WITHIN 100-YEAR FLOODPLAIN	0.15/0/0
ACREAGE OF FOREST RETAINED, CLEARED, AND PLANTED WITHIN STREAM BUFFERS	2.35/0.31/0
ACREAGE OF FOREST RETAINED, CLEARED, AND PLANTED WITH PRIORITY AREAS	2.35/0.31/0
ACREAGE OF AFFORESTATION PLANTED	0

CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS, AND M-NOP&PC GUIDELINES.

DATE: MICHAEL A. NORTON
MONTGOMERY COUNTY PUBLIC SCHOOLS
QUALIFIED PROFESSIONAL

CITY OF GAITHERSBURG
GAITHERSBURG, MARYLAND 20877
FCP APPROVAL
THE CITY OF GAITHERSBURG DEVELOPMENT
REVIEW TEAM HEREBY GRANTS APPROVAL OF
FOREST CONSERVATION PLAN
FOR APPLICATION NO. _____
DATE: _____ BY: _____

OWNER/APPLICANT
MONTGOMERY COUNTY PUBLIC SCHOOLS
283 MUDDY BRANCH ROAD
GAITHERSBURG, MARYLAND 20878
ATTN: MR. RAY MARIAMATI, PE
TEL: (301) 548-7538 FAX: (301) 548-7274

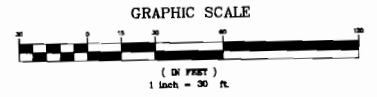
ADDITIONS & ALTERATIONS TO:
FIELDS ROAD
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1 SCHOOL DRIVE
GAITHERSBURG, MD
FOR:
MONTGOMERY COUNTY PUBLIC SCHOOLS

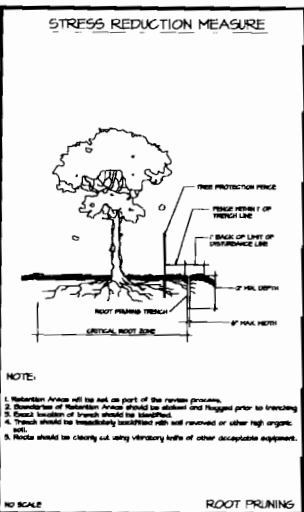
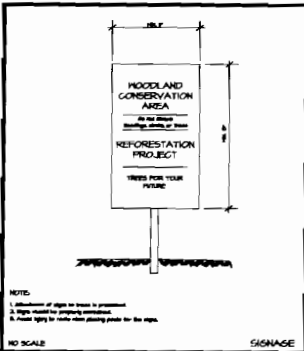
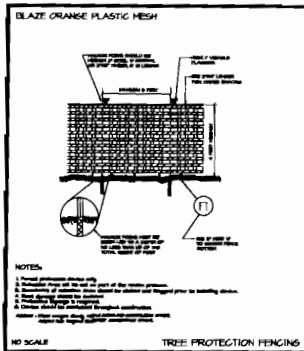
DATE: 18 AUGUST 08	BY: [Signature]
PROJECT & APPROPRIATE	[Signature]
120 North Market Street Frederick, Maryland 21701 P: (301) 662-6532 F: (301) 662-4982	F-1

ADTEK
ADTEK ENGINEERS, INC.
3770 WOODBURN ROAD, SUITE 100
FREDERICK, MARYLAND 21701
PHONE: 301-662-4408
FAX: 301-662-7484
www.adtekengineers.com

**FOREST
CONSERVATION
PLAN**

MISS UTILITY
CALL "MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 35A OF THE MONTGOMERY COUNTY CODE.





SITE PLANTING & AFFORESTATION

GENERAL NOTES

- DRAWINGS ARE FOR TREE CONSERVATION AND AFFORESTATION PURPOSES ONLY. AS-BUILT CONDITIONS MAY VARY. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND UTILITY LOCATIONS SHOWN AND DESCRIBED ON THE DRAWINGS, AND SHALL INFORM HAINES LAND DESIGN, TEL. NO. 301-218-8650 OF ANY DISCREPANCIES OR POTENTIAL PROBLEMS PRIOR TO COMMENCING WORK.
- IN AFFORESTATION AREAS ALL BRANCHED DECIDUOUS TREES SHALL BE PLANTED WITH RANDOM SPACING 14.0' ON CENTER. SHRUBS AND CONTAINER GROWN EVERGREENS NOT IN PLANTING BEDS SHALL BE PLANTED IN RANDOM SPACING 24.25.0' ON CENTER.
- DO NOT PLANT TREES OR SHRUBS WITHIN 3'-0" OF THE CENTERLINE OF SWALES OR DITCHES.
- "MISS UTILITY" (1-800-257-7777) MUST BE CONTACTED A MINIMUM OF 48 HOURS PRIOR TO PROCEEDING WITH ANY EXCAVATION FOR PLANT MATERIAL INSTALLATION.
- NO PLANT MATERIAL SHALL BE PLANTED DIRECTLY IN FRONT OF ROADWAY SIGN SIGHT LINES.
- PLANT MATERIALS AND PLANTING MEASURES SHALL CONFORM WITH THE "LANDSCAPE SPECIFICATION GUIDELINES FOR THE BALTIMORE-WASHINGTON METROPOLITAN AREAS", LATEST EDITION.
- ALL PLANTS SHALL BE WATERED FOR A TWO YEAR PERIOD AS REQUIRED. THE CONTRACTOR SHALL PROVIDE SUFFICIENT MANPOWER AND EQUIPMENT TO COMPLETE THE WATERING AS REQUIRED.
- THE FOLLOWING LIST OF PLANTS SHALL BE PLANTED ONLY DURING THE SPRING PLANTING SEASON: ACER RUBRUM, LIQUIDAMBAR STRYACIFLUA, AND QUERCUS SPP. (ALL OAK SPECIES).
- ALL EVERGREEN SPECIES PLANTINGS, SUCH AS HOLLIES, SHALL REQUIRE 10% MALE PLANTS TO 90% FEMALE PLANTS, WITH A MINIMUM OF ONE MALE PLANT PER GROUPING.
- ALL EXISTING TRASH AND IMPERVIOUS AREAS SHOWN ON THE PLAN TO BE REMOVED MUST BE REMOVED AND ANY DISTURBED SOIL MUST BE STABILIZED AND SEDED. IT MAY BE NECESSARY TO SCARIFY AND/OR AERATE THE SOIL. FOUR(4) INCHES OF TOPSOIL WILL BE ADDED IF NONE EXISTS AFTER GRADING.
- PLANTS SHALL BE INSPECTED BY THE CONTRACTOR AND ANY MATERIAL THAT IS EITHER DAMAGED OR WHICH HAS ROOT BALL COMPACTION, J-ROOTED OR PINNED ROOT SYSTEMS WILL BE REPLACED. NO PLANTS WILL BE STORED ON SITE. PLANTS WILL BE PLANTED IMMEDIATELY ONCE RECEIVED FROM THE NURSERY.
- STOCK WILL BE PLANTED IN RANDOM ORDER TO REFLECT NATURAL GROWTH OF THE FOREST.
- PLANTING FIELD SHOULD BE LIMITED TO 2.5X ROOT BALL DIAMETER. NATIVE SOIL MATERIAL WILL BE USED TO BACKFILL PLANT SITE AND AREA WILL BE PACKED TO REMOVE AIR POCKETS. HAVE SOIL EVENLY OVER THE PLANTING FIELD AND COVER HOLE WITH THREE INCHES OF MULCH. WATER TO SETTLE SOIL AND PROVIDE MOISTURE AS NEEDED.
- DEER PROTECTION MEASURES TO BE PROVIDED FOR ALL PLANTED TREES. SPECIFIC MEASURES TO BE DETERMINED AS PART OF THE PRE-PLANTING MEETING.
- CONTRACTOR TO SUBMIT ANNUAL REPORT ON HEALTH OF AFFORESTATION PLANTS.
- RETAIN AN ARBORIST FOR THE PROTECTION OF THE FOUR RED MAPLE TREES OFF-SITE & ON THE PROPERTY LINE OF SCOTT M. AND M.M. HENRY PARCEL 475 DURING CONSTRUCTION OF THE NEW TENNIS COURTS.
- RETAIN AN ARBORIST FOR THE PROTECTION OF TREES #30, #35, #38 AND ALL OTHER SPECIMEN TREES WHOSE CRITICAL ROOT ZONES ARE POTENTIALLY IMPACTED BY THE LIMITS OF DISTURBANCE.

SITE INSPECTIONS, SEQUENCE OF CONSTRUCTION, AND SPECIFIC REFORESTATION PLANTING SPECIFICATIONS

INSPECTIONS

THERE SHALL BE FOUR INSPECTIONS FOR FOREST CONSERVATION OR REFORESTATION PLANTING OPERATIONS.

- THE FIRST INSPECTION SHALL OCCUR AFTER FLAGGING/STAKING OF THE L.O.D. AND/OR STREAM BUFFERS, AND PRIOR TO ANY CLEARING, GRADING OR SEDIMENT CONTROL MEASURES. THIS INSPECTION IS TO ADDRESS THE ISSUES OF THE PROTECTION AND SEDIMENT CONTROL. THE DEVELOPER AND REPRESENTATIVES FROM HAINES LAND DESIGN (301)218-8650, AND CITY OF GAITHERSBURG WILL MEET TO WALK THE PROPOSED LIMITS OF DISTURBANCE AND DETERMINE THE FINAL LOCATIONS OF SEDIMENT CONTROL DEVICES AND TREE PROTECTION DEVICES.
- THE 2ND INSPECTION SHALL OCCUR PRIOR TO PLANTING IN AFFORESTATION AREAS. THIS PRE-PLANTING INSPECTION IS TO MAKE FINAL DECISIONS REGARDING THE BEST IMPLEMENTATION OF THE PLANTING PLAN, INCLUDING, BUT NOT LIMITED TO, THE FINAL PLACEMENT AND SELECTION OF PLANT SPECIES, DETERMINATION OF THE REGENERATION POTENTIAL OF EXISTING PLANTS TO REMAIN, AND A DETERMINATION OF THE BEST EDGE PLANTING TREATMENT. THE PURCHASE AND DELIVERY OF PLANT MATERIALS SHOULD NOT BE MADE UNTIL AFTER THIS INSPECTION SINCE A DETERMINATION MAY BE MADE IN THE FIELD TO ALTER THE CHOICE OF PLANT MATERIAL.
- THE 3RD INSPECTION SHALL OCCUR IMMEDIATELY FOLLOWING THE COMPLETION OF THE AFFORESTATION PLANTING. THIS INSPECTION IS TO INSURE THE COMPLETION AND ADEQUACY OF THE PLANTING.
- THE 4RD AND FINAL INSPECTION SHALL OCCUR AT THE COMPLETION OF THE 5 YEAR MAINTENANCE PLAN AND PROGRAM. THE PURPOSE OF THE INSPECTION IS TO DETERMINE THE SUCCESS AND ADEQUACY OF THE MAINTENANCE PROGRAM (AND DEER MANAGEMENT PROGRAM). A FINAL DETERMINATION WILL BE MADE AT THIS TIME AS TO WHETHER ADDITIONAL PLANTS AND A FURTHER MAINTENANCE PROGRAM ARE NECESSARY.

MISS UTILITY

CALL "MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

CITY OF GAITHERSBURG NOTES

- PRECONSTRUCTION MEETING: HELD ON-SITE TO INCLUDE A PRESENTATION OF PROTECTION MEASURES TO CONSTRUCTION SUPERVISORS, EQUIPMENT OPERATORS, DEVELOPER'S REPRESENTATIVE, AND SITE AND SEDIMENT CONTROL INSPECTORS.
- CLEARING LIMITS SHALL BE ROUGH STAKED BY DEVELOPER IN ORDER TO FACILITATE LOCATION FOR TRENCHING AND FENCING INSTALLATION.
- NO CLEARING OR GRADING SHALL BEGIN IN AREAS WHERE TREE TREATMENT AND PRESERVATION MEASURES HAVE NOT BEEN COMPLETED.
- THE SEQUENCE OF TREE TREATMENT AND CONSERVATION MEASURES SHALL BE:
 - ROOT PRUNING
 - TREE PROTECTION FENCING
 - AERATION SYSTEM INSTALLATION
 - SOIL INSTALLATION
 - SOIL INSTALLATION
 - TREE PRUNING AND CHEMICAL TREATMENT
 - MULCH TREATMENT
- ABOVE MEASURES SHALL BE DIRECTED IN THE FIELD BY THE PROJECT FORESTER, ARBORIST, NATURALIST, ECOLOGIST, SITE ENGINEER OR LANDSCAPE ARCHITECT.
- TREE PROTECTION FENCING SHALL BE MAINTAINED AND REPAIRED BY THE DEVELOPER OR CONTRACTOR FOR THE DURATION OF CONSTRUCTION AND ONCE APPROVED BY THE CITY SITE INSPECTOR, MUST NOT BE ALTERED WITHOUT PRIOR APPROVAL BY THE CITY SITE INSPECTOR.
- ACCESS TO FENCED AREAS WILL ONLY BE PERMITTED WITH THE PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE AND THE CITY SITE INSPECTOR.
- DESIGNATED AVIATION ZONES SHALL BE PROTECTED WITH TEMPORARY FENCING UNTIL FINAL GRADING.
- ANY EXCAVATION OR GRADING REQUIRED WITHIN THE FENCED AREAS SHALL BE DONE AS DIRECTED AND APPROVED BY THE PERSON MENTIONED IN NOTE #8 AND THE CITY SITE INSPECTOR.
- TREES, SHRUBS, OR UNDERGROWTH SHALL BE REMOVED FROM THE PROTECTED ROOT ZONE AREAS ONLY WHEN NECESSARY FOR CONSTRUCTION. REMOVAL SHALL BE BY HAND.
- REPAIR TO TREE PROTECTION FENCING FOR SPECIFIC TREATMENT OF EACH SPECIMEN TREE.
- ATTACHMENT OF SIGNAGE, FENCING, ETC., TO TREES TO BE SAVED IS PROHIBITED.
- AFTER CONSTRUCTION, ALL TEMPORARY BARRIERS, FENCING, DEBRIS, ETC., SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
- NO SOIL OR SEED SHALL BE PLANTED WITHIN THE DESIGNATED ROOT ZONES FOR ALL TREES TO BE SAVED.

SEQUENCE OF CONSTRUCTION

- STAKE AND FLAG LIMITS OF DISTURBANCE, SEDIMENT CONTROL DEVICES, TREE PROTECTION LIMITS, ROOT PRUNING LINES AND PLANTING AREAS OR SPECIFIC PLANT LOCATIONS. TAKE SOIL SAMPLES FROM AFFORESTATION AREA AND HAVE SOILS ANALYZE FOR PLANTING RECOMMENDATIONS.
- CALL THE CITY OF GAITHERSBURG FOR FIRST INSPECTION.
- CONDUCT TREE STRESS REDUCTION MEASURES AND IMPLEMENT FOREST OR TREE PROTECTION MEASURES AS SPECIFIED ON THE PLAN AND BEGIN ERADICATION OF INVASIVE PLANTS IN THE AFFORESTATION AREAS.
- CONDUCT SITE SEDIMENT CONTROL MEASURES AND BUILDING CONSTRUCTION BY FOLLOWING THE SEQUENCE OF CONSTRUCTION AS SPECIFIED ON THE SEDIMENT CONTROL PLAN.
- AFTER THE BUILDING EXTERIOR AND SITE UTILITY WORK HAS BEEN COMPLETED AND THE OWNER AND CONSTRUCTION SUPERINTENDENT AUTHORIZES THE PLANTING WORK TO PROCEED THE SITE LANDSCAPING CONTRACTOR IS TO INSPECT JOB SITE CONDITIONS AND NOTE ANY PROBLEMS PRIOR TO COMMENCEMENT OF WORK.
- CALL "MISS UTILITY" AT 1-800-257-7777 PRIOR TO ANY WORK FOR THE LOCATION OF ALL UTILITIES.
- ADJUST EXISTING SEDIMENT CONTROL MEASURES FOR FOREST CONSTRUCTION OR PLANTING AS REQUIRED.
- CALL THE CITY OF GAITHERSBURG, GAITHERSBURG H.S. PRINCIPAL AND SPORTS STAFF FOR THE SECOND INSPECTION.
- CONTINUE WITH INVASIVE PLANT ERADICATION AND MODIFY SPECIFIED SPECIES, FINAL PLACEMENT AND SELECTION OF PLANT SPECIES AND MAKE A DETERMINATION OF THE REGENERATION POTENTIAL OF EXISTING PLANTS TO REMAIN WITH THE INSPECTION STAFF OF THE CITY OF GAITHERSBURG.
- PROCEED WITH SOIL AMENDMENTS AND SITE PLANTING PREPARATION, SITE PLANTING AND AFFORESTATION PLANTING. INSTALL PROTECTIVE FENCE AND SITE PROTECTION SIGNS FOR AFFORESTATION PLANTING AREA.
- AFTER PLANTING HAS BEEN COMPLETED NOTIFY OWNER AND BEGIN FIVE(5) YEAR MAINTENANCE PROGRAM.
- MAINTAIN PLANTS BY WATERING, FERTILIZING, MULCHING, AND IMPLEMENTING A WEED CONTROL AND WILDLIFE DEGRADATION CONTROL PROGRAM.
- AFTER TWO YEARS OF PLANT ESTABLISHMENT CALL THE CITY OF GAITHERSBURG FOR THE THIRD INSPECTION.
- AFTER FINAL INSPECTION TURN OVER MAINTENANCE OF PLANTING TO THE OWNER OR, IF PLANTING DEFICIENCIES EXIST, CONDUCT ADDITIONAL PLANTING OR CONDUCT CORRECTIVE MEASURES TO RELEASE BOND FOR AFFORESTATION PLANTING. AT LEAST 75% OF THE TOTAL TREES PLANTED PER ACRE MUST BE ALIVE AND IN GOOD CONDITION; AND 75% OF THE SHRUBS MUST ALSO BE ALIVE AND IN GOOD CONDITION AFTER TWO YEARS TO RELEASE THE BOND.

MAINTENANCE DESCRIPTION

- FOREST PLANTING TO COMMENCE AT THE INITIAL STAGES OF DEVELOPMENT. FOREST PLANTING AREAS TO BE COVERED BY A TWO-YEAR MAINTENANCE PROGRAM. THE LANDSCAPE CONTRACTOR WILL INSPECT ALL PLANTED AREAS EVERY SIX MONTHS AFTER PLANTING FOR TWO YEARS. AT THE END OF THE TWO YEAR INSPECTION, THE CONTRACTOR WILL REQUEST THE CITY INSPECTION AND WILL ENSURE THAT 75% OF THE ORIGINAL STANDING LEVEL IS LIVE AND VIGOROUS.
- IN YEARS ONE AND TWO EACH FOREST PLANTING AREA WILL BE MAINTAINED BY EITHER MOWING OR CHEMICAL TREATMENT. CONTROL OF EXOTIC AND INVASIVE SPECIES IS TO BE DONE WITHOUT THE USE OF HERBICIDES AS MUCH AS POSSIBLE. IF USE OF CHEMICAL IS UNAVOIDABLE, CONTACT THE CITY OF GAITHERSBURG FOR APPROVAL PRIOR TO APPLICATION OF CHEMICALS.

Fields Road Elementary School Forest Conservation Notes

The purpose of this Forest Conservation Plan is to satisfy the requirements of City and State laws that protect existing and future forest cover, individual trees, and other sensitive environmental features, and to maintain these areas in a natural or low maintenance state to protect visual habitat, water quality, and wildlife. The following conditions apply to areas designated on the Forest Conservation Plan that satisfy the site's afforestation requirements:

- No living trees or shrubs (of any size or type) shall be cut down, removed or destroyed without a permit from the City. If a dead or hazardous tree or shrub is found, the contractor shall be responsible for its removal or proper disposal only with a permit unless the removal of a permit is not practical in an emergency situation.
- No dumping of unsightly or offensive man-made materials, including trash, construction materials and debris, and no dumping of stumps, sawdust or grass clippings shall occur.
- Pathways and fences consistent with the purpose and intent of Tree and/or Conservation laws may be constructed upon approval from the City.
- Provided that measures are taken to protect existing trees and shrubs, mowing to reduce the height and appearance of growth in naturalized areas, or in create a well-maintained and safe appearance, and reasonable steps to remove dangerous and unsightly growth, noxious weeds, and exotic plants (as defined by State or City laws), shall be permitted unless otherwise designated on the Forest Conservation Plan.
- Household maintenance of trees and other plantings within the Afforestation Areas, including, but not limited to pruning, fertilizing, staking, soil aeration, etc. shall be permitted, provided such maintenance activities do not damage, injure or kill trees or cause erosion or slope stability problems or unless such activities are expressly prohibited by the State and/or local Tree and Forest Conservation laws.
- New plantings, that are characteristic of trees and undergrowth in Maryland, may be required to replace dead, cut, or removed trees or undergrowth, to maintain the purpose and intent of the afforestation area.
- The following activities may not occur without prior written consent from the City:
 - Construction of roadways or private drives
 - Activities in which any way could enter or interfere with the soil or slope stability or drainage on or offsite.
- Any proposed elimination, reduction, alteration, or relocation of the afforestation areas or modification of the terms and conditions in the Forest Conservation Plan must be approved by the City and must continue to satisfy the requirements of local and state laws regarding the protection of trees, tree canopy, and forests.

Significant Tree Summary 2+ "

Tree #	Species	D.B.H. (inches)	Zone (to Ft.)	Condition	Comments
1	RED OAK	26	12-11	12-11	SAVE & PROTECT
2	RED OAK	26	12-11	12-11	SAVE & PROTECT
3	RED OAK	26	12-11	12-11	SAVE & PROTECT
4	RED OAK	26	12-11	12-11	SAVE & PROTECT
5	RED OAK	26	12-11	12-11	SAVE & PROTECT
6	RED OAK	26	12-11	12-11	SAVE & PROTECT
7	RED OAK	26	12-11	12-11	SAVE & PROTECT
8	RED OAK	26	12-11	12-11	SAVE & PROTECT
9	RED OAK	26	12-11	12-11	SAVE & PROTECT
10	RED OAK	26	12-11	12-11	SAVE & PROTECT
11	RED OAK	26	12-11	12-11	SAVE & PROTECT
12	RED OAK	26	12-11	12-11	SAVE & PROTECT
13	RED OAK	26	12-11	12-11	SAVE & PROTECT
14	RED OAK	26	12-11	12-11	SAVE & PROTECT
15	RED OAK	26	12-11	12-11	SAVE & PROTECT
16	RED OAK	26	12-11	12-11	SAVE & PROTECT
17	RED OAK	26	12-11	12-11	SAVE & PROTECT
18	RED OAK	26	12-11	12-11	SAVE & PROTECT
19	RED OAK	26	12-11	12-11	SAVE & PROTECT
20	RED OAK	26	12-11	12-11	SAVE & PROTECT

CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS, AND M-NOP&PC GUIDELINES.

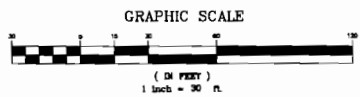
DATE: _____ MICHAEL A. NORTON
MONR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL

CITY OF GAITHERSBURG
31 SOUTH BLUMM AVENUE
GAITHERSBURG, MARYLAND 20877
FCP APPROVAL
THE CITY OF GAITHERSBURG DEVELOPMENT
REVIEW TEAM HEREBY GRANTS APPROVAL OF
FOREST CONSERVATION PLAN
FOR APPLICATION NO. _____
DATE: _____ BY: _____

OWNER/APPLICANT
MONTGOMERY COUNTY PUBLIC SCHOOLS
283 MUDDY BRANCH ROAD
GAITHERSBURG, MARYLAND 20878
ATTN: MR. RAY MARIAMATI, PE
TEL: (301) 548-7538 FAX: (301) 548-7274



CAUTION: IF THIS DRAWING IS A REDUCTION, GRAPHIC SCALE MUST BE USED (ORIGINAL SIZE = 30" x 42")

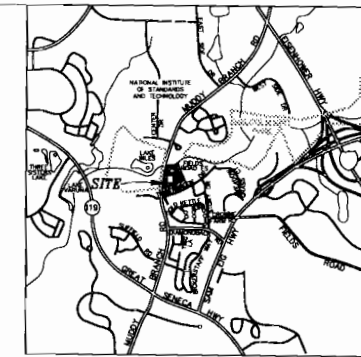


FOREST CONSERVATION NOTES & DETAILS PLAN

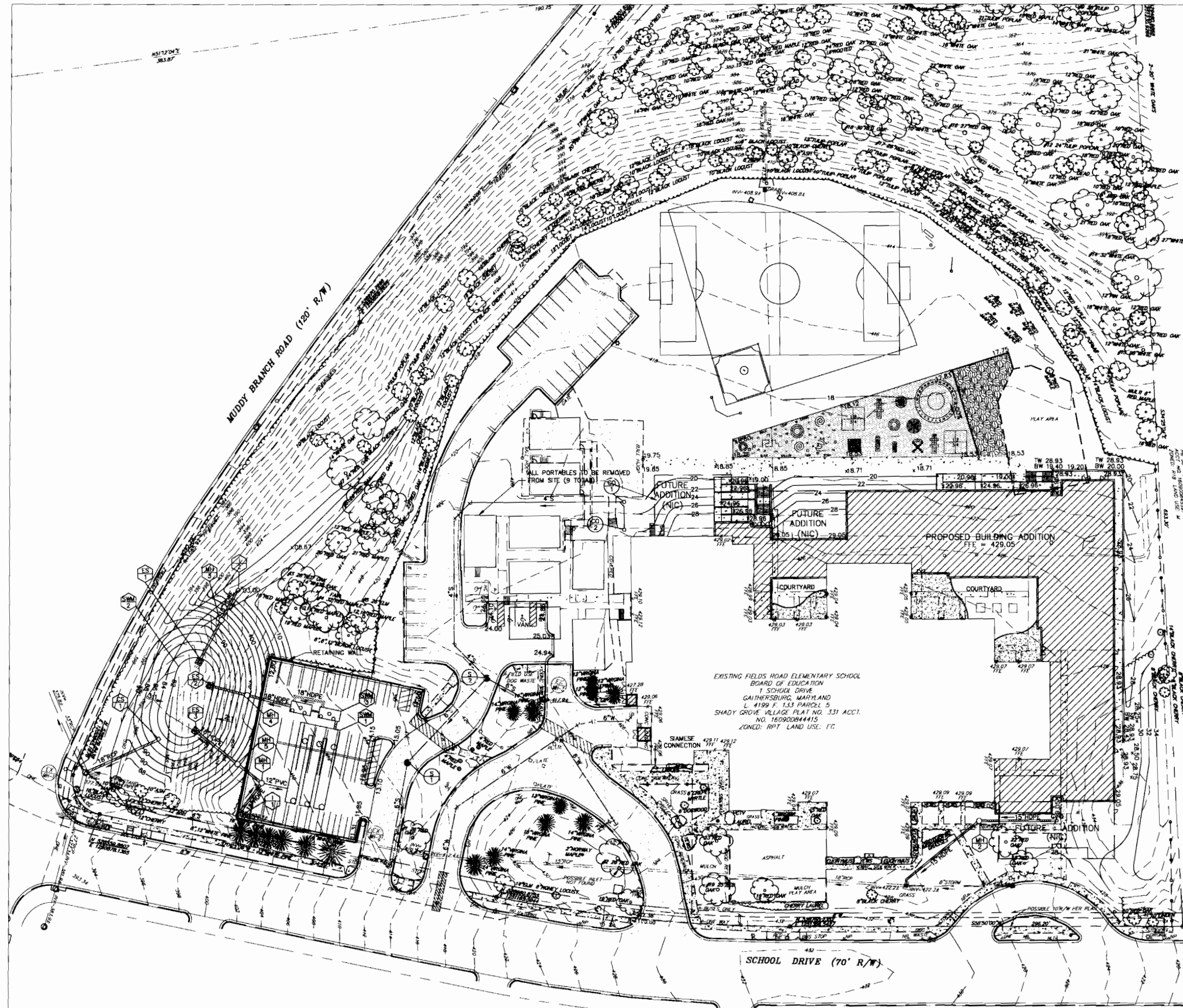
ADDITIONS & ALTERATIONS TO:
FIELDS ROAD
ELEMENTARY SCHOOL
1 SCHOOL DRIVE
GAITHERSBURG, MD

FOR:
MONTGOMERY COUNTY PUBLIC SCHOOLS

Date: 18 AUGUST 08
Rev: _____
Project & Assoc. ARCHITECTS
100 North Market Street
Frederick, Maryland 21701
P: (301) 662-8632
F: (301) 662-4180
F-2

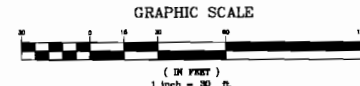


VICINITY MAP
SCALE: 1" = 2,000'
(WSSG GRID: 221 NW 10)
ADC MAP, 33rd EDITION
MONTGOMERY COUNTY, MARYLAND



EXISTING FIELDS ROAD ELEMENTARY SCHOOL
BOARD OF EDUCATION
1 SCHOOL DRIVE
GAITHERSBURG, MARYLAND
L 4199 F. 1.33 PARCEL 5
SHADY GROVE VILLAGE PLAT NO. 331 ACCT.
NO. 16090084415
ZONED: RPT LAND USE: FC

CAUTION: IF THIS DRAWING IS A REDUCTION,
GRAPHIC SCALE MUST BE USED
(ORIGINAL SIZE = 30" x 42")



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ADTEK
ADTEK ENGINEERS, INC.
ONE SHILOH BLVD. & WILSON AVE. INTERSECTION
97 MONACO BOULEVARD, UNIT H
FREDERICK, MARYLAND 21701
Phone: 301-662-4408
Fax: 301-662-7484
www.adtekengineers.com

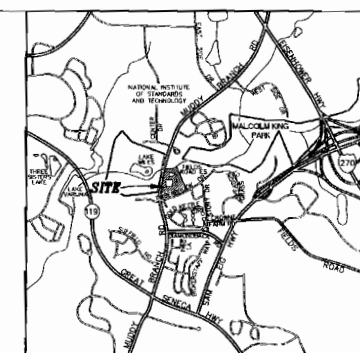
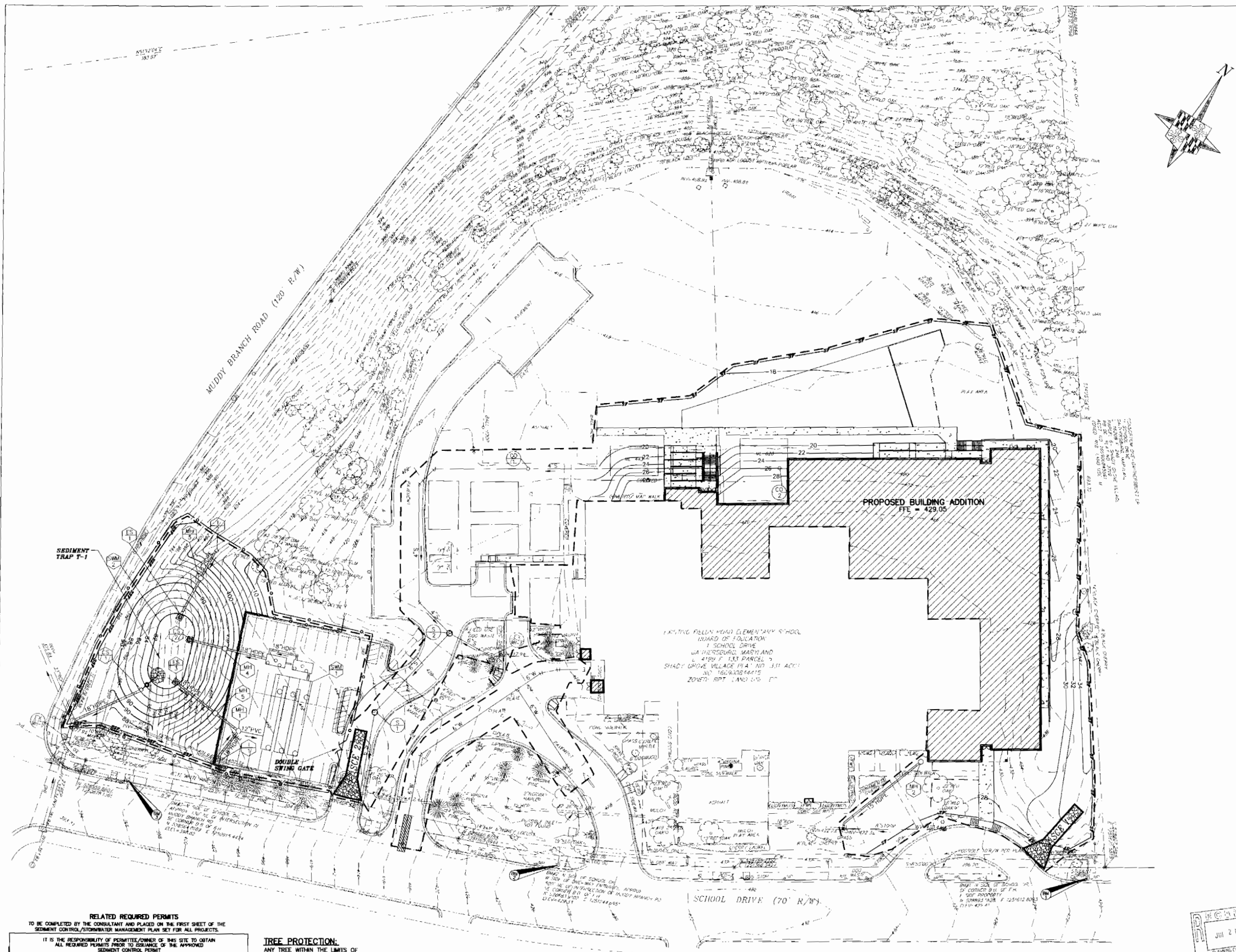
SWM CONCEPT

ADDITIONS & ALTERATIONS TO:
**FIELDS ROAD
ELEMENTARY SCHOOL**
1 SCHOOL DRIVE
GAITHERSBURG, MD
FOR:
MONTGOMERY COUNTY PUBLIC SCHOOLS

OWNER/APPLICANT
MONTGOMERY COUNTY PUBLIC SCHOOLS
283 MUDDY BRANCH ROAD
GAITHERSBURG, MARYLAND 20878
ATTN: MR. RAY MARHAMATI, PE
TEL: (301) 548-7538 FAX: (301) 548-7274

DATE: 18 AUGUST 08	BY: [Signature]
PROJECT & SITE NO.	AFP-06-031
100 North Market Street Frederick, Maryland 21701 P: (301) 662-4408 F: (301) 662-4482	

AFP-06-031
7
9.6.06



VICINITY MAP
SCALE: 1" = 2,000'
(WGS84 GRID: 22° 11' N, 76° 10' W)
ADIC MAP, 3rd EDITION
MONTGOMERY COUNTY, MARYLAND

SEDIMENT CONTROL LEGEND

LIMITS OF DISTURBANCE	SSP	SSP
SUPER SILT FENCE	SSP	SSP
SILT FENCE	SF	SF
STABILIZED CONSTRUCTION ENTRANCE		
CONTRACTOR STAGING AREA		
TEMP CONSTRUCTION FENCE (6' HIGH)		
EARTH DIKE		
DRAINAGE DIVIDE		

SEDIMENT TRAP

TRAP NO.	T-1
TYPE OF TRAP	ST-1
DRAINAGE AREA (EXIST.)	3.69 ACRES
DRAINAGE AREA (PROP.)	4.40 ACRES
STORAGE REQUIRED	15,840 CU. FT.
STORAGE PROVIDED	19,064 CU. FT.
STORAGE DEPTH BELOW OUTLET	6.0'
CLEANOUT ELEVATION	383.50
ELEVATION @ TOP OF EMBANKMENT	390.00
BOTTOM OF TRAP	382.00
WET STORAGE ELEVATION	385.00
RISER CREST ELEVATION	388.00
OUTLET BARREL DIAMETER	18"
SIDE SLOPES	2:1
RISER DIAMETER	27"
BOTTOM DIMENSIONS	84x46±
TRASH RACK DIAMETER	42"

SEE DETAILS SHEET C-29

TRAP RISER NOTES:
TRASH RACK/ANTI-VORTEX DEVICE:
TRASH RACK CYLINDER SHALL BE 42" DIA. 16 GAGE STEEL. HEIGHT SHALL BE 15". THE MIN. SIZE SUPPORT BAR SHALL BE #6 REBAR. MIN TOP THICKNESS = 14 GAGE.
RISER BASE:
RISER BASE SHALL BE ANCHORED WITH EITHER A CONCRETE BASE OR STEEL PLATE. CONCRETE BASE SHALL BE 4.5' DIA. AND 18" DEEP, WITH RISER EMBEDDED 9". STEEL BASE SHALL BE 4.5' DIA WITH A 1/4" PLATE COVERED WITH 2' OF STONE, GRAVEL OR COMPACTED EARTH ON THE PLATE.
ANTI-SEEP COLLAR:
ONE ANTI-SEEP COLLAR SHALL BE INSTALLED PER DETAIL. THE COLLAR SHALL BE 5.75' x 5.75' SQUARE. THE COLLAR SHALL BE PLACED 10' FROM THE RISER.

SC/SWM SHEET 1 OF 7
CITY OF GAITHERSBURG
DEPARTMENT OF PUBLIC WORKS,
PARKS MAINTENANCE AND ENGINEERING
FINAL APPROVAL
STORMWATER MANAGEMENT SEDIMENT CONTROL
DATE _____
BY _____
THIS APPROVAL WILL EXPIRE TWO YEARS FROM DATE OF APPROVAL

OWNER/APPLICANT
MONTGOMERY COUNTY PUBLIC SCHOOLS
283 MUDDY BRANCH ROAD
GAITHERSBURG, MARYLAND 20878
ATTN: MR. RAY MARSHALL, PE
TEL: (301) 548-7538 FAX: (301) 548-7274

RELATED REQUIRED PERMITS
TO BE COMPLETED BY THE CONSULTANT AND PLACED ON THE FIRST SHEET OF THE SEDIMENT CONTROL/STORMWATER MANAGEMENT PLAN SET FOR ALL PROJECTS.

IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT.

TYPE OF PERMIT	PERIT	NOT PERIT	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
WETLANDS DISTRICT		✓			
WETLANDS (WETLANDS)		✓			
A. CORP. OF ENGINEERS		✓			
B. MDC		✓			
C. MDC WATER QUALITY CERTIFICATION		✓			
MDC DAM SAFETY		✓			
N.P.D.E.S. NOTICE OF INTENT		✓			DATE FILED 07/08/05
OTHERS (PLEASE LIST):					
WETLANDS FOREST CONSTRUCTION PLAN		✓	4-03146E		

TREE PROTECTION:
ANY TREE WITHIN THE LIMITS OF DISTURBANCE, NOT SHOWN TO BE PROTECTED SHALL BE REMOVED, U.N.O.

FLOODPLAIN CERTIFICATION
THIS SITE DOES NOT FALL WITHIN ANY 100-YEAR FLOODPLAIN AS SHOWN BY THE FEDERAL EMERGENCY MANAGEMENT ADMINISTRATION, DATED AUGUST 5, 1991, COMMUNITY PANEL NO. 240048-02000C.

PROPOSED SLOPES:
THERE ARE NO PROPOSED SLOPES EXCEEDING 2:1.

WETLANDS
THERE ARE NO NON-TIDAL WETLANDS ON THIS SITE.

OFF-SITE DRAINAGE AREAS
THERE ARE NO OFF-SITE DRAINAGE AREAS ENTERING THIS SITE.

THIS PLAN IS FOR EROSION AND SEDIMENT CONTROL ONLY.
NOTE TO CONTRACTOR: EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED!

MISS UTILITY
CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

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GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.

ADTEK
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CIVIL, STRUCTURAL & GEOTECHNICAL ENGINEERING
97 MONROE BOULEVARD, UNIT H
FREDERICK, MARYLAND 21701
Phone: 301-662-4408
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www.adtekengineers.com

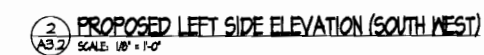
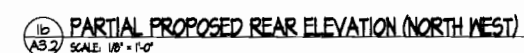
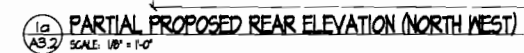
EROSION AND SEDIMENT CONTROL PLAN

ADDITIONS & ALTERATIONS TO:
FIELDS ROAD ELEMENTARY SCHOOL
1 SCHOOL DRIVE
GAITHERSBURG, MD
FOR:
MONTGOMERY COUNTY PUBLIC SCHOOLS

100 North Market Street
Frederick, Maryland 21701
P: (301) 662-4408
F: (301) 662-4182
C-2A

AFP-06-031
#8
9-6-06

PENGAD 800-631-6989
 AFP-06-031
 #9
 9-6-06



<p>KEY PLAN</p> <p>NOT TO SCALE</p> <p>PLAN NORTH</p>	<p>ADDITIONS & ALTERATIONS TO: FIELDS ROAD ELEMENTARY SCHOOL</p> <p>1 SCHOOL DRIVE GAITHERSBURG, MD</p> <p>FOR: MONTGOMERY COUNTY PUBLIC SCHOOLS</p>	<p>Date: 10 SEPTEMBER 1989</p> <p>Rev.</p> <p>JAMES A. SPIVEY, INC. ARCHITECTS</p> <hr/> <p>300 North Market Street Frederick, Maryland 21701</p> <p>P:(301) 392-4632 F:(301) 392-4632</p>
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